



HYDAC

INTERNATIONAL

**Components,
Systems and Service
for the Mining Industry.**



Your professional Partner in Mining.

With over 5,000 employees worldwide HYDAC is one of the leading suppliers of fluid technology, hydraulic and electronic equipment.

Our wide range of products, combined with our expertise in development, manufacturing, sales and service enables the mining industry worldwide to overcome the most diverse problems.

Our quality and environment certification to ISO 9001/2000 and ISO 14001 denote first class quality and responsible management of our resources.

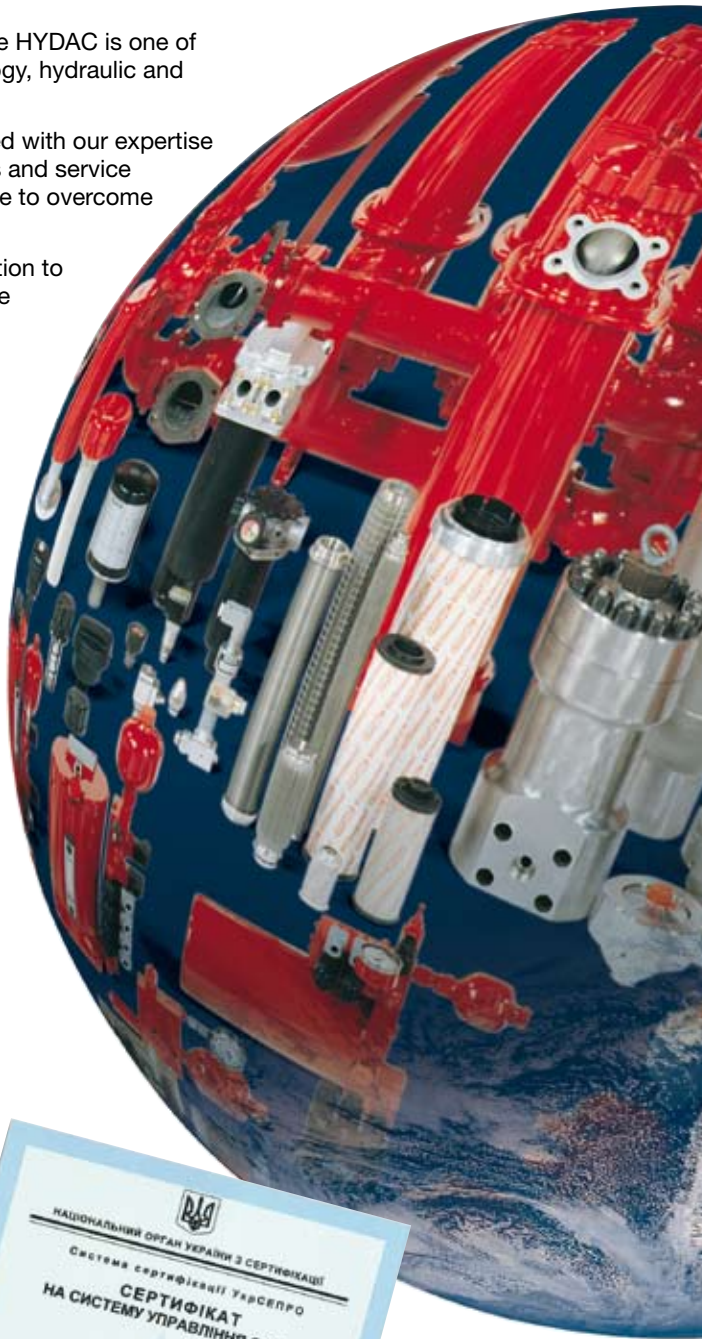
Global yet local.

With 40 overseas subsidiaries and over 500 distributors and service partners, HYDAC is your reliable partner worldwide.

System solutions. One supplier. One contact.

Wherever you need us, we're there to help you find the most effective solution – for every application, from components to a complete system.

Worldwide specifications / approvals.



HYDAC Headquarters Germany



HYDAC China



HYDAC Poland / Russia



HYDAC USA



HYDAC India



HYDAC Korea



HYDAC Australia



HYDAC Brazil

HYDAC underground.

We provide:

- A global presence in mining
- Project-specific design of hydraulic systems in accordance with worldwide mining standards and regulations
- Continual system optimisation in partnership with the customer
- Cost optimisation by means of customised system solutions
- Condition monitoring of hydraulic and lubrication circuits
- Full service – worldwide



Mobile Pump Station (pump car) for longwall hydraulics.



High Pressure Filter fitted inline in the pressure line at the back of the pump car.



High pressure filter for mobile pump station.

Pump station, Media supply, Longwall hydraulics

Compact media processing and servicing is carried out at fixed and mobile pump stations.

For special applications or functions, HYDAC supplies products for

- Filtration
- Pulsation damping
- Condition monitoring



Pump Station for supplying HFA.



Pulsation Dampers for high pressure pumps.



Stainless Steel Inline Filters for filtering HFA and water, including mining-specific filter elements.

Mining – extraction of raw materials

Mining raw materials by the longwall or room-and-pillar methods necessitates servicing and protection of components such as the water, HFA and hydraulic systems. For mining activities, HYDAC supplies:

- ▄ Designs for pressure, return line and offline filtration
- ▄ Filter elements stable up to 350 bar differential pressure
- ▄ Valves
- ▄ Complete systems, e.g. for offline filtration
- ▄ Cylinders for all underground machines and equipment



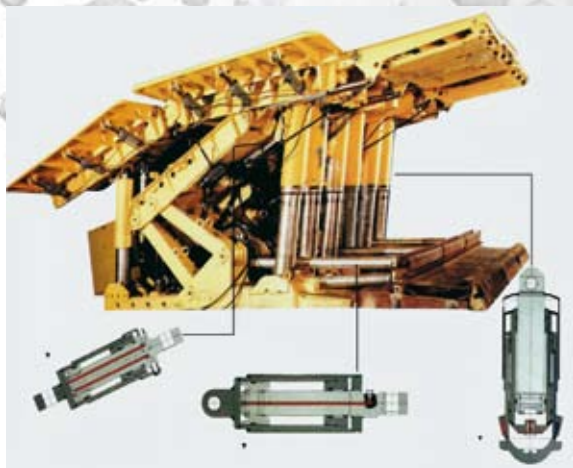
Face Support with cutting rollers.



High Pressure Filter panel for filtration of the longwall hydraulics or the sprinkling water.



Room-and-pillar support using Continuous Miner.



Shield Cylinders for pressures up to 1,500 bar.



Last Chance Elements protect control units.



Inline Cartridge Filters with Steck-O staple connector.



Manual or automatic Back-Flushing High Pressure Filter for water and HFA processing.



High Pressure Elements, Δp 350 bar.



Offline Filtration Unit with ATEX approval.



Two-stage, Change-Over Back-Flushing Filter for sprinkling systems.



Automatic Back-Flushing Filter RF3 to treat water for sprinkling and chiller systems.

Preliminary work – Development and expansion of the mining site

Whether full section, part-face or conventional driving, HYDAC products guarantee smooth operation underground.

- Filters for hydraulic media and water
- Hydraulic accumulators
- Electronic measurement technology for mining
- Solenoids
- Hydraulic valves
- Ball valves and fluid level gauges
- Pipe clamps, hose and cable mounting, component mounting
- Bell housings and couplings
- Cylinders with special coatings for harsh operation underground



Drilling jumbo Saarstahl AG.



Part-Face Heading Machine.



Side-Tilting Shovel Loader.



Monitoring of the piston in a piston accumulator with ATEX approval.



Pressure Transmitters with ATEX approval.



Clogging Indicator for mining.



Electronic Pressure Switches with ATEX approval.



Steck-O staple connector ball valves.



Direct Current Solenoids with ATEX approval.



High pressure filter for mining machines.



In-line Filter, steel, 420 bar.

Logistics – Material handling and passenger transportation

Belt conveyors, monorails and industrial trucks are the means of transport underground. To keep the transport moving, HYDAC supplies amongst other things

- Filters for water, hydraulic and lubrication systems
- Cylinders, e.g. for chassis and conveyor systems
- Hydraulic accumulators e.g. in monorails
- Mounting technology



RFLD Change-over inline filters.



Cylinder for the suspension system on load haul dumpers.



Bladder, Piston and Diaphragm accumulators e.g. for energy storage, damping or suspension.



Combi-Coolers, customized cooler solutions for: engine water, charge air, gear oil, fuel cooling and engine oil.



Plate Heat Exchanger.



Accessories



Load Haul Dumper.



Material Transport.



Cylinder for pneumatic belt tensioner.



Conveyor Belt System.



Face Conveyors.



FluidEngineering, Service and Spare Parts Supply – worldwide.

Analysis und diagnostics.

70 – 80 % of all breakdowns in hydraulic and lubrication systems are due to contamination of the fluids and components used. In practice, this is not sufficiently recognized. HYDAC offers a comprehensive range of easy-to-use measurement and analysis equipment to monitor operating fluid and component cleanliness. Fluid laboratory vehicles are at your service worldwide.

Commissioning, optimisation, engineering.

As a systems and fluid service specialist, HYDAC provides a comprehensive fluid engineering concept. From cleaning, to complete maintenance packages, to system optimisation, HYDAC is your principal partner.

Our concern is to improve the operational availability of machines and hydraulic systems. Fluid engineering is the total package of technical and commercial services for the benefit of the customer.

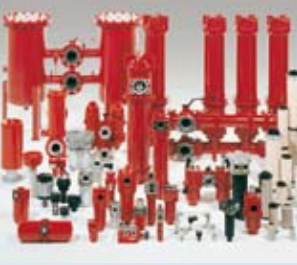
Spare parts supply.

Your perfect partner for single source supply of all current filtration products for the mining industry.





Brochure: Accumulators DEF 3.000



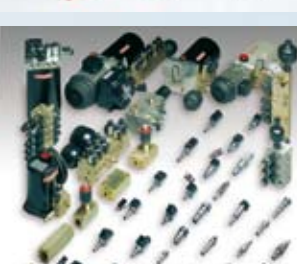
Broch.: Filtration Range DEF 7.000



Br.: Filters for Industr. Processing DEF 7.700



Br.: Systematic Fluid Service DEF 7.929



Broch.: Compact Hydraulics DEF 5.300



Brochure: Accessories DEF 6.100






Brochure: Electronics DEF 18.000



Broch.: Cooling Systems DEF 5.700

Global presence. Local expertise. www.hydac.com



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